



## Cumulative Contents

## Information for Contributors

## Regular Section

## Regular Papers

Prazosin reduces myocardial ischemia/reperfusion-induced  $\text{Ca}^{2+}$  overloading in rat heart by inhibiting phosphoinositide signaling

I.I. Moraru, R.M. Jones, L.M. Popescu, R.M. Engelman and D.K. Das (USA, Rumania)

Recognition of sialosaccharide chains of glycophorin on damaged erythrocytes by macrophage scavenger receptors

M. Beppu, T. Hayashi, T. Hasegawa and K. Kikugawa (Japan, USA)

Quantitative analysis of redox gradient within the rat liver acini by fluorescence images: effects of glucagon perfusion

B. Sato, A. Tanaka, S. Mori, N. Yanabu, T. Kitai, A. Tokuka, T. Inomoto, S. Iwata, Y. Yamaoka and B. Chance (Japan, USA)

Intracellular degradation of type I collagen and fibronectin in human lung fibroblasts: evidence against degradation in pre-lysosomal compartments

L.M.B. Andersson and M.J. Warburton (UK)

Alterations in superoxide dismutase and catalase in *Fusarium oxysporum* during starvation-induced differentiation

Y. Kono, H. Yamamoto, M. Takeuchi and H. Komada (Japan)

Intracellular pH of *Candida albicans* blastospores as measured by laser microspectrofluorimetry and  $^{31}\text{P}$ -NMR

F. Rabaste, M. Sancelme, A.-M. Delort, J. Blais and J. Bolard (France)

Modifications of pH and  $\text{K}^+$  gradients in *Candida albicans* blastospores induced by Amphotericin B. A  $^{31}\text{P}$  NMR and  $\text{K}^+$  atomic absorption study

F. Rabaste, M. Sancelme and A.-M. Delort (France)

Consequences of the overexpression of ubiquitin in yeast: elevated tolerances of osmotic stress, ethanol and canavanine, yet reduced tolerances of cadmium, arsenite and paromomycin

Y. Chen and P.W. Piper (UK)

vii

Stimulation of urokinase expression by  $\text{TNF-}\alpha$  requires the activation of binding sites for the AP-1 and PEA3 transcription factors

E. Lengyel, J. Klostergaard and D. Boyd (USA)

65

Extracellular ATP inhibits agonist-induced mobilization of internal calcium in human platelets

G. Soslaw, R.J. McKenzie, I. Brodsky and T.M. Devlin (USA)

73

Rotational asymmetry of *Escherichia coli* flagellar motor in the presence of arsenate

M. Welch, Y. Margolin, S.R. Caplan and M. Eisenbach (Israel)

81

Acute stimulation of glucose transport by histamine in cardiac microvascular endothelial cells

J. Thomas, M. Linssen, G.J. Van der Vusse, B. Hirsch, P. Rösen, H. Kammermeier and Y. Fischer (Germany, The Netherlands)

88

## Subsection

## Regular Papers

Characterisation of the divalent cation channels of the hepatocyte plasma membrane receptor-activated  $\text{Ca}^{2+}$  inflow system using lanthanide ions

K.C. Fernando and G.J. Barritt (Australia)

97

Rat fibroblasts synthesize T-kininogen in response to cyclic-AMP, prostaglandin  $\text{E}_2$  and cytokines

M. Takano, K. Yokoyama, K. Yayama and H. Okamoto (Japan)

107

Ethanol-induced modification of somatostatin-responsive adenylyl cyclase in rat exocrine pancreas

I. Alvaro-Alonso, M. Del Carmen Boyano-Adán and E. Arilla (Spain)

115

## Regular Section

## Publisher's Note

v

## Regular Papers

Mediation of pepsinogen secretion from guinea pig chief cells by  $\text{Ca}^{2+}$ /calmodulin-dependent protein kinase II

N. Okayama, M. Itoh, T. Joh, T. Miyamoto, T. Takeuchi, T. Suzuki, A. Moriyama and T. Kato (Japan)

123

- Evidence for separate mechanisms of cytotoxicity in mammalian cells treated with hydrogen peroxide in the absence or presence of L-histidine  
*P. Sestili, O. Cantoni, F. Cattabeni and D. Murray (Italy, USA)* 130
- Effect of ammodytin L from *Vipera ammodytes* on L-6 cells from rat skeletal muscle  
*S. Incerpi, P. De Vito, P. Luly and S. Rufini (Italy)* 137
- Cathepsin D-like aspartyl protease activity mediates the degradation of tissue-type plasminogen activator/plasminogen activator inhibitor-1 complexes in human monocytes  
*D.I. Simon, H. Xu and D.E. Vaughan (USA)* 143
- Purinergic agonist and G protein stimulation of phospholipase D in rat liver plasma membranes. Independence from phospholipase C activation  
*K.C. Malcolm, S.E. Trammell and J.H. Exton (USA)* 152
- The toxicity of aromatic nitrocompounds to bovine leukemia virus-transformed fibroblasts: the role of single-electron reduction  
*N. Čenas, A. Nemeikaitė, E. Dičkanaitė, Ž. Anusevičius, H. Nivinskas and D. Bironaitė (Lithuania)* 159
- Lactate and pyruvate stimulate the conversion of glucose to glycogen in hepatocytes by a mechanism that does not involve gluconeogenic flux  
*D. Tosh and L. Agius (UK)* 165
- Dopamine-induced programmed cell death in mouse thymocytes  
*D. Offen, I. Ziv, S. Gorodin, A. Barzilai, Z. Malik and E. Melamed (Israel)* 171
- Hemocyte adhesion in the California mussel (*Mytilus californianus*): regulation by adenosine  
*J.-H. Chen and C.J. Bayne (USA)* 178
- Effects of dibutyl guanidine 3',5'-cyclic monophosphate and sodium nitroprusside in pepsinogen secretion from guinea pig chief cells with respect to intracellular  $Ca^{2+}$   
*N. Okayama, M. Itoh, T. Joh, T. Miyamoto, T. Takeuchi, A. Moriyama and T. Kato (Japan)* 185
- Regulation of expression of aminopeptidase N in fetal rat lung by dexamethasone and epidermal growth factor  
*S.D. Tangada, R.D.A. Peterson and J.D. Funkhouser (USA)* 191
- Sensitivity to inhibition by N-ethylmaleimide: a property of nitrobenzylthioinosine-sensitive equilibrative nucleoside transporter of murine myeloma cells  
*C.-W. Lee, L.-B. Goh and Y. Tu (Singapore)* 200
- Rapid Report**
- Rab and rho GTPases are involved in specific response of periodontal ligament fibroblasts to mechanical stretching  
*E.K. Basdra, A.G. Papavassiliou and L.A. Huber (Germany, Switzerland)* 209
- Subsection**
- Regular Papers**
- Aberrant cGMP-binding activity in non-chemotactic *Dictyostelium discoideum* mutants  
*H. Kuwayama, G.T. Viel, S. Ishida and P.J.M. Van Haastert (The Netherlands, Japan)* 214
- Removal of phosphate from phosphohistidine in proteins  
*Y. Kim, K.H. Pesis and H.R. Matthews (USA, UK)* 221
- Pronounced activation of protein kinase C, ornithine decarboxylase and c-jun proto-oncogene by paraquat-generated active oxygen species in WI-38 human lung cells  
*M.-L. Kuo, K.-C. Lee, J.-K. Lin and T.-S. Huang (Taiwan, Republic of China)* 229
- Growth-stimulating effect of lipoproteins on human arterial smooth-muscle cells and lung fibroblasts is due to Apo B-containing lipoproteins, type LDL and VLDL, and requires LDL receptors  
*S. Björkerud and B. Björkerud (Sweden)* 237
- Regular Section**
- Publisher's Note** v
- Regular Papers**
- Source of oxygen free radicals produced by rat hepatocytes during postanoxic reoxygenation  
*P. Caraceni, H.S. Ryu, D.H. Van Thiel and A.B. Borle (USA)* 249
- Metabolism of L-arginine through polyamine and nitric oxide synthase pathways in proliferative or differentiated human colon carcinoma cells  
*F. Blachier, M. Selamnia, V. Robert, H. M'Rabet-Touil and P.-H. Duée (France)* 255
- Phosphorylation of eukaryotic elongation factor 2 in differentiating and proliferating HL-60 cells  
*A. Nilsson and O. Nygård (Sweden)* 263

Prenylcysteine analogs mimicking the C-terminus of GTP-binding proteins stimulate exocytosis from permeabilized HIT-T15 cells: comparison with the effect of Rab3AL peptide <i>R. Regazzi, T. Sasaki, K. Takahashi, J.-C. Jonas, C. Volker, J.B. Stock, Y. Takai and C.B. Wollheim (Switzerland, Japan, USA)</i>	269	Glutamine increases collagen gene transcription in cultured human fibroblasts <i>G. Bellon, B. Chaqour, Y. Wegrowski, J.-C. Monboisse and J.-P. Borel (France)</i>	311
Transport of bimane-S-glutathione in human erythrocytes <i>Ł. Pułaski and G. Bartosz (Poland)</i>	279	<b>Rapid Report</b>	
Effects of N-3554S, a polyprenyl phosphate, on B16-F10 mouse melanoma cells <i>K. Shirane, K. Furukawa, K. Fukuchi, H. Yamazaki, M. Tsuji and Y. Okamoto (Japan)</i>	285	Clusterin gene expression in apoptotic MDCK cells is dependent on the apoptosis-inducing stimulus <i>R. Flach, M. Cattaruzza and C. Koch-Brandt (Germany)</i>	325
Protein kinase activity-dependent inhibition of urokinase-type plasminogen activator gene transcription by cyclic AMP in human pre-B lymphoma cell line RC-K8 <i>M. Shinbo, K. Niiya, M. Al-mokdad, Y. Hayakawa, K.-i. Hiraga, M. Fujimaki and N. Sakuragawa (Japan)</i>	293	<b>Subsection</b>	
Fibroblasts co-expressing tyrosinase and the b-protein synthesise both eumelanin and phaeomelanin <i>A.J. Winder, G. Odh, E. Rosengren and H. Rorsman (UK, Sweden)</i>	300	<b>Regular Paper</b>	
		Inhibition on platelet activation by shikonin derivatives isolated from <i>Arnebia euchroma</i> <i>F.-N. Ko, Y.-S. Lee, S.-C. Kuo, Y.-S. Chang and C.-M. Teng (Taiwan, ROC)</i>	329
		<b>Cumulative Contents, Vol. 1268</b>	335
		<b>Author Index</b>	338